

428 Rec'd PCT/PTR 25 JAN 2000

Sheet 1 of 1

FORM PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: NICIIA-00700	Serial No.: 09/463643
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)		Applicant: Shuji Nakamura <i>et al.</i>	
(37 CFR § 1.98(b))		Filing Date: January 25, 2000	Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initials	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
BWB	AK	9-116130	5/2/97	Japan	Ho1L	29/43		X
	AL							
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

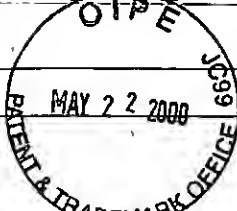
AP	
AQ	
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AW	
AX	
AY	
AZ	

Examiner: *Brian Bannister*

Date Considered: 9/15/01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MAY 22 2000

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

FORM PTO-1449
(Modified)

Applicant: Shuji Nakamura, et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

Filing Date: January 25, 2000

Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
BW	AA	3566215	2/23/71	Heywang	317	235	7/31/68
	AB	3593191	7/13/71	Henker	331	94.5	9/24/69
	AC	3655439	4/11/72	Seiter	117	212	6/16/69
	AD	3658585	4/25/72	Folkmann, et al.	117	201	2/26/70
	AE	3704427	11/28/72	Heywang	331	94.5	6/3/64
	AF	3705567	12/12/72	Emels	118	49	1/22/71
	AG	3737737	6/5/73	Heywang, et al.	317	234.R	10/6/71
	AH	3747559	7/24/73	Dietze	118	48	5/15/72
	AI	3793984	2/26/74	Kasper, et al.	118	48	11/13/72
	AJ	3819974	6/25/74	Stevenson, et al.	313	499	3/12/73
	AK	3853974	12/10/74	Reuschel, et al.	264	81	2/21/73
	AL	3941647	3/2/76	Druminski	156	612	3/8/73
	AM	3948693	4/6/76	Weyrich, et al.	148	171	7/23/74
	AN	3963537	6/15/76	Kniepkamp, et al.	148	175	8/27/74
	AP	3965347	8/22/78	Heywang	250	211.J	11/12/74
	AP	3974561	8/17/76	Schnoeller	29	611	5/30/74
	AP	4020791	5/3/77	Reuschel, et al.	118	49.1	11/19/74
	AP	4062035	12/6/77	Winstel	357	17	1/28/77
	AP	4098223	7/4/78	Ertl, et al.	118	88	11/4/76
	AT	4102298	7/25/78	Dietze, et al.	118	5	6/10/76
	AU	4108539	8/22/78	Gort, et al.	350	201	11/18/76
	AV	4113381	9/12/78	Epstein	350	5	11/18/76
	AW	4133702	1/9/79	Krimmel	118	1.5	8/11/77
	AX	4140546	2/20/79	Krimmel	148	1.5	8/17/77
	AY	4154625	5/15/79	Golovchenko et al.	148	1.5	11/16/77
	AZ	4170018	10/2/79	Runge	357	17	3/30/78
	BA	4261770	4/14/81	Splitgerber, et al.	118	171	3/13/80
	BB	4351695	9/28/82	Hieber, et al.	156	603	1/2/81
	BC	4404265	9/13/83	Manasevit	428	689	4/7/78
	BE	4410993	10/18/83	Zschauer	372	44	4/17/81
	BE	4423349	12/27/83	Nakajima, et al.	313	487	7/1/81
	BE	4505765	3/19/85	Trommer	118	171	6/17/83
BW	BG	4521448	6/4/85	Sasaki	427	88	3/3/83

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Group Art Unit:

<i>BW</i>	BH	4531142	7/23/85	Weyrich, et al.	357	17	2/16/83
	BI	4568206	2/4/86	Imazaike	384	530	12/3/84
	BJ	4596998	6/24/86	Krimmel	357	17	7/19/84
	BK	4599244	7/8/86	Falckenberg, et al.	427	74	9/12/84
	BL	4599245	7/8/86	Falckenberg, et al.	427	74	9/11/84
	BM	4604637	8/5/86	Ruhle, et al.	357	17	3/1/83
	BN	4615766	10/7/86	Jackson, et al.	156	662	2/27/85
	BO	4656636	4/7/87	Amann, et al.	372	50	12/23/85
	BP	4661175	4/28/87	Kuphal, et al.	148	171	6/6/85
	BQ	4670093	6/2/87	Maerz, et al.	156	649	4/21/86
	BR	4682337	7/21/87	Amann	372	44	9/13/85
	BS	4683574	7/28/87	Heinen	372	44	9/12/85
	BT	4722088	1/26/88	Wolf	372	44	9/6/85
	BU	4740259	4/26/88	Heinen	156	234	9/15/86
	BV	4742525	5/3/88	Heinen, et al.	372	44	9/6/85
	BW	4744088	5/10/88	Heinen, et al.	372	50	3/13/87
	BX	4746195	5/24/88	Auracher, et al.	350	320	3/13/85
	BY	4763979	8/16/88	Heywang	350	96.20	9/23/86
	BZ	4768199	8/30/88	Heinen, et al.	372	36	9/5/86
	CA	4792200	12/20/88	Amann, et al.	350	96.12	4/1/87
	CB	4792959	12/20/88	Mueller, et al.	372	46	1/30/87
	CC	4818722	4/4/89	Heinen	437	129	5/26/87
	CD	4829188	5/9/89	Shinomiya, et al.	250	483.1	10/1/87
	CE	4835575	5/30/89	Plihal	357	30	2/3/88
	CF	4841344	6/20/89	Heinen	357	17	12/7/87
	CG	4845723	7/4/89	Heinen, et al.	372	38	2/22/88
	CP	4855118	7/4/89	Ichinose, et al.	423	301	4/12/88
	CI	4859903	8/22/89	Minematu, et al.	313	487	3/2/88
	CJ	4864369	9/5/89	Snyder, et al.	357	17	7/5/88
	CK	4869568	9/26/89	Schimpe	357	96.12	9/29/88
	CI	4890033	12/26/89	Ichinomiya, et al.	313	487	9/29/88
	CM	4904617	2/27/90	Muschke	437	129	1/26/88
	CN	4904618	2/27/90	Neumark	437	150	8/22/88
	CM	4907044	3/6/90	Schellhorn, et al.	357	17	7/14/89
	CP	4907534	3/13/90	Huang, et al.	118	725	12/9/88
<i>BW</i>	CO	4911102	3/27/90	Manabe, et al.	118	719	1/26/88

Examiner:

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(Modified)INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(37 CFR § 1.98(b))

U.S. Department of Commerce Patent and Trademark Office					Attorney Docket No.: NICHIA-00700	Serial No.:09/463643	
					Applicant: Shuji Nakamura, <i>et al.</i>		
					Filing Date: January 25, 2000		
					Group Art Unit:		
CR	4918497	4/17/90	Edmond		357	17	12/14/88
CS	4929907	5/29/90	Berkel		330	252	3/8/89
CT	4944837	7/31/90	Nishikawa, <i>et al.</i>		156	646	2/28/89
CU	4945394	7/31/90	Palmour, <i>et al.</i>		357	34	10/26/87
CV	4946547	8/7/90	Palmour, <i>et al.</i>		156	643	10/13/89
CW	4947218	8/7/90	Edmond, <i>et al.</i>		357	13	11/3/87
CX	4959174	9/25/90	Nakajima, <i>et al.</i>		252	301.6R	3/16/89
CY	4960728	10/2/90	Schaake, <i>et al.</i>		437	82	10/11/88
CZ	4966862	10/30/90	Edmond		437	100	8/28/89
DA	4971739	11/20/90	Ichinose, <i>et al.</i>		264	61	4/12/89
DB	4977567	12/11/90	Hanke		372	45	10/11/89
DC	4982314	1/1/91	Miki		363	16	12/4/89
DD	4985742	1/15/91	Pankove		357	34	7/7/89
DE	4987576	1/22/91	Heinen		372	46	11/3/89
DF	4990466	2/5/91	Shieh, <i>et al.</i>		437	129	11/1/88
DG	4990990	2/5/91	Albrecht, <i>et al.</i>		357	30	3/23/88
DH	5005057	4/2/91	Izumiya, <i>et al.</i>		357	17	4/13/90
DI	5006908	4/9/91	Matsuoka, <i>et al.</i>		357	17	2/12/90
DJ	5008735	4/16/91	Edmond, <i>et al.</i>		357	74	12/7/89
DK	5008789	4/16/91	Arai, <i>et al.</i>		362	255	2/14/90
DL	5019746	5/28/91	Merg		313	512	12/4/89
DM	5023686	6/11/91	Helmut, <i>et al.</i>		357	48	6/15/90
DO	5027168	6/25/91	Edmond		357	17	8/28/89
DO	5034956	7/23/91	Gessner, <i>et al.</i>		372	45	11/2/89
DO	5041334	8/20/91	Nakajima, <i>et al.</i>		428	407	12/19/89
DO	5042043	8/20/91	Hatano, <i>et al.</i>		428	45	4/13/90
DO	5045896	9/3/91	Ash, <i>et al.</i>		357	17	3/21/89
DS	5049779	9/17/91	Itsuki, <i>et al.</i>		313	486	3/23/89
DT	5061972	10/29/91	Edmond		357	13	4/13/90
DU	5065207	11/12/91	Heinen		357	48	2/5/91
DO	5077145	12/31/91	Shinomiya, <i>et al.</i>		428	691	12/21/90
DW	5093576	3/3/92	Edmond, <i>et al.</i>		250	370.01	3/15/91
DX	5119540	6/9/92	Kong, <i>et al.</i>		29	25.01	7/24/90
DO	5120619	6/9/92	Nakajima, <i>et al.</i>		428	690	11/7/90
DO	5122845	6/16/92	Manabe, <i>et al.</i>		357	17	2/26/90
EA	5128955	7/7/92	Danielmeyer		372	94	8/18/88

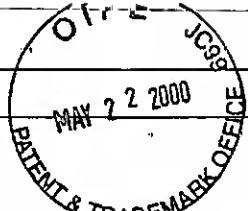
Examiner:

Elm Barrett

Date Considered:

9/15/01

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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

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(37 CFR § 1.98(b))

Filing Date: January 25, 2000

Group Art Unit:

<i>BWB</i>	EB	5146465	9/8/92	Khan, et al.	372	45	2/1/91
	EC	5155062	10/13/92	Coleman	437	100	12/20/90
	ED	5171370	12/15/92	Reithmaier, et al.	118	726	4/18/90
	EE	5182670	1/26/93	Khan, et al.	359	359	8/30/91
	EF	5184247	2/2/93	Schimpe	359	344	7/17/90
	EG	5185207	2/9/93	Furuoka, et al.	428	404	12/27/91
	EH	5200022	4/6/93	Kong, et al.	156	612	10/3/90
	EI	5202777	4/13/93	Sluzky, et al.	359	50	4/1/92
	EJ	5205905	4/27/93	Kotaki, et al.	156	662	5/30/91
	EK	5208878	5/4/93	Thulke	385	14	10/2/91
	EL	5210051	5/11/93	Carter, Jr.	437	107	6/5/91
	EM	5218216	6/8/93	Manabe, et al.	257	103	12/20/91
	EN	5229626	7/20/93	Ebitani, et al.	257	84	3/27/92
	EO	5233204	8/3/93	Fletcher, et al.	257	13	1/10/92
	EP	5239188	8/24/93	Takeuchi, et al.	257	76	11/4/92
	EQ	5247533	9/21/93	Okazaki, et al.	372	45	12/26/91
	ER	5250366	10/5/93	Nakajima, et al.	428	690	5/8/92
	ES	5252499	10/12/93	Rothschild	437	22	8/15/88
	ET	5252839	10/12/93	Fouquet	257	13	6/10/92
	EU	5260960	11/9/93	Armann, et al.	372	46	4/23/92
	EV	5264713	11/23/93	Palmour	257	77	6/14/91
	EW	5266503	11/30/93	Wang, et al.	437	24	10/2/91
	EX	5270554	12/14/93	Palmour	257	77	6/14/91
	EY	5272108	12/21/93	Kozawa	437	127	2/26/92
	EZ	5278433	1/11/94	Manabe, et al.	257	103	8/7/92
	FF	5281830	1/25/94	Kotaki, et al.	257	86	10/24/91
	FB	5290393	3/1/94	Nakamura	156	613	1/28/92
	FF	5306662	4/26/94	Nakamura, et al.	437	107	11/2/92
	FL	5312560	5/17/94	Somatomo, et al.	252	301.4 S	3/18/93
	FF	5323022	6/21/94	Glass, et al.	257	77	9/10/92
	FF	5330791	7/19/94	Aihara, et al.	427	215	3/18/93
	FG	5334277	8/2/94	Nakamura	117	102	10/22/91
	FB	5336080	8/9/94	Sumitomo, et al.	428	407	12/17/92
	FB	5338944	7/19/94	Edmond, et al.	257	76	9/22/93
	FJ	5341390	8/23/94	Yamada, et al.	372	76	4/15/93
<i>BWB</i>	FK	5343316	8/30/94	Morimoto, et al.	359	50	6/29/93

Examiner:

Brian Brown

Date Considered:

9/15/01

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FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

Filing Date: January 25, 2000

Group Art Unit:

<i>BWB</i>	FL	5344791	9/6/94	Huang	437	126	8/14/92
	FM	5359345	10/25/94	Hunter	345	102	8/5/92
	FN	5363390	11/8/94	Yang, et al.	372	22	11/22/93
	FO	5366834	11/22/94	Yoneda, et al.	430	23	5/5/93
	FP	5369289	11/29/94	Tamaki, et al.	257	99	10/30/92
	FQ	5376303	12/27/94	Royce, et al.	252	301.4 R	1/10/94
	FR	5376580	12/27/94	Kish, et al.	437	127	3/19/93
	FS	5381103	1/10/95	Edmond, et al.	324	753	10/13/92
	FT	5382822	1/17/95	Stein	257	410	9/27/93
	FU	5389571	2/14/95	Takeuchi, et al.	437	133	4/16/93
	FV	5390210	2/14/95	Fouquet, et al.	372	92	11/22/93
	FW	5393993	2/28/95	Edmond, et al.	257	77	12/13/93
	FX	5394005	2/28/95	Brown, et al.	257	461	2/18/94
	FY	5403774	4/4/95	Shieh, et al.	437	129	11/6/92
	FZ	5404282	4/4/95	Klinke, et al.	362	249	8/19/94
	GA	5408120	4/18/95	Manabe, et al.	257	431	1/22/93
	GB	5409859	4/25/95	Glass, et al.	437	187	4/22/94
	GC	5416342	5/16/95	Edmond, et al.	257	76	6/23/93
	GD	5417886	5/23/95	Tateiwa, et al.	252	301.4 R	9/20/93
	GE	5433169	7/18/95	Nakamura	117	102	4/6/94
	GF	5433533	7/18/95	Imazaike	384	488	12/20/93
	GG	5433888	7/18/95	Okada, et al.	252	301.4 R	9/20/93
	GH	5435938	7/25/95	Bando, et al.	257	301.4 S	3/10/94
	GO	5438198	8/1/95	Ebitani, et al.	252	330	5/3/94
	GO	5459107	11/14/95	Palmour	437	238	6/5/92
	GK	5465249	11/7/95	Cooper, Jr. et al.	365	149	11/26/91
	GL	5467291	11/14/95	Fan, et al.	364	578	12/5/91
	GM	5468678	11/21/95	Nakamura, et al.	437	149	1/12/94
	GN	5475241	12/12/95	Harrah, et al.	257	77	10/27/93
	GO	5497012	3/5/96	Moll	252	183	6/15/94
	GR	5502316	3/26/96	Kish, et al.	257	94	10/12/95
	GO	5506421	4/9/96	Palmour	257	77	11/24/92
	GR	5511084	4/23/96	Amann	372	77	1/17/95
	GO	5514627	5/7/96	Lowery, et al.	437	209	1/24/94
	GT	5523018	6/4/96	Okada, et al.	252	301.4 P	3/23/95
<i>BWB</i>	GU	5523018	6/4/96	Edmond, et al.	257	77	9/20/93

Examiner:

*Elan Baum*Date Considered: *9/15/01*

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U.S. Department of Commerce Patent and Trademark Office					Attorney Docket No.: NICHIA-00700	Serial No.:09/463643	
					Applicant: Shuji Nakamura, <i>et al.</i>		
					Filing Date: January 25, 2000	Group Art Unit:	
GV	5539217	7/23/96	Edmond, <i>et al.</i>		257	77	8/9/93
GW	5563422	10/8/96	Nakamura, <i>et al.</i>		257	94	9/28/94
GX	5578839	11/26/96	Nakamura, <i>et al.</i>		257	46	11/17/93
GY	5583879	12/10/96	Yamazaki, <i>et al.</i>		372	46	7/19/95
GZ	5585648	12/17/96	Tischler		257	77	2/3/95
HA	5587593	12/24/96	Koidc, <i>et al.</i>		257	94	4/19/95
HR	5592501	1/7/97	Edmond, <i>et al.</i>		372	45	9/20/94
HC	5592501	1/7/97	Ruh		385	46	11/1/95
HR	5596595	1/21/97	Tan, <i>et al.</i>		372	46	6/8/95
HR	5604135	2/18/97	Edmond, <i>et al.</i>		437	77	8/12/94
HR	5604763	2/18/97	Kato, <i>et al.</i>		372	45	7/19/95
HC	5612260	4/15/97	Palmour		437	238	12/9/94
HH	5614736	3/25/97	Neumann, <i>et al.</i>		257	102	4/26/95
HI	5616177	4/1/97	Yamada		117	102	2/22/95
HJ	5620557	4/15/97	Manabe, <i>et al.</i>		385	507	6/26/95
HR	5621749	4/15/97	Baney		372	69	9/6/95
HL	5625202	4/29/97	Chai		257	77	6/8/95
HM	5627244	5/6/97	Sato		526	92	4/26/95
HN	5629531	5/13/97	Palmour		257	77	12/9/94
HR	5631190	5/20/97	Negley		385	33	10/7/94
HR	5635146	6/3/97	Singh, <i>et al.</i>		423	65	11/30/95
HR	5642375	6/24/97	King, <i>et al.</i>		372	97	10/26/95
HR	5650641	7/22/97	Sassa, <i>et al.</i>		257	88	8/31/95
HS	5652434	7/29/97	Nakamura, <i>et al.</i>		257	77	6/17/96
HI	5652438	7/29/97	Sassa, <i>et al.</i>		257	94	7/19/95
HU	5656832	2/18/97	Ohba, <i>et al.</i>		257	102	3/8/95
HV	5659568	2/18/97	Wang, <i>et al.</i>		372	46	5/23/95
HW	5661074	8/26/97	Tischler		437	32	5/23/95
HX	5661316	8/26/97	Kish, Jr., <i>et al.</i>		257	102	9/20/94
HR	5661742	8/26/97	Huang, <i>et al.</i>		372	46	5/22/96
HZ	5670798	9/23/97	Schetzina		257	46	3/29/95
IA	5679153	10/21/97	Dmitriev, <i>et al.</i>		117	102	11/30/94
IB	5684623	11/4/97	King, <i>et al.</i>		359	346	11/21/96
IC	5686737	11/11/97	Allen		257	77	9/16/94
ID	5700713	12/23/97	Yamazaki, <i>et al.</i>		437	129	3/20/95
IE	5707139	1/13/98	Haitz		362	231	11/1/95

Examiner:

Brian Bennett

Date Considered: 9/15/01

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MAY 22 2000

FDRM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

INFORMATION DECLARATION STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

Filing Date: January 25, 2000

Group Art Unit:

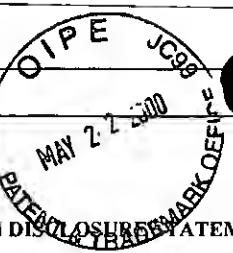
<i>BSB</i>	IR	5718760	2/17/98	Carter, et al.	117	84	2/5/96
	IG	5725404	2/17/98	Singh, et al.	257	18	6/6/96
	IH	5724062	3/3/98	Hunter	345	102	9/21/94
	II	5724373	3/3/98	Chang	372	20	11/15/96
	IJ	5724376	3/3/98	Kish, Jr., et al.	372	96	11/30/95
	IR	5727014	4/14/98	Wang, et al.	372	18	11/30/95
	II	5729029	4/14/98	Rudaz	257	13	6/6/96
	IM	5729567	4/14/98	Nakagawa	372	18	4/25/96
	II	5733796	3/31/98	Manabe, et al.	437	127	11/9/95
	II	5734182	3/31/98	Nakamura, et al.	257	96	6/10/96
	II	5739552	4/14/98	Kimura, et al.	257	96	10/24/95
	II	5739554	4/14/98	Edmond, et al.	257	103	6/6/96
	IR	5741431	4/21/98	Shih	216	96	5/15/97
	IS	5741724	4/21/98	Ramdani, et al.	437	102	12/27/96
	II	5742133	4/21/98	Wilhelm, et al.	315	291	9/9/96
	IU	5747832	5/5/98	Nakamura, et al.	257	103	6/10/96
	IV	5753939	6/16/98	Sassa, et al.	257	18	3/7/97
	IW	5758951	6/2/98	Haitz	362	259	6/27/97
	IX	5761229	6/2/98	Baldwin, et al.	372	31	1/25/96
	IY	5767581	6/16/98	Nakamura, et al.	257	749	6/10/96
	IZ	5771254	6/23/98	Baldwin, et al.	372	31	6/3/96
	JT	5776837	7/7/98	Palmour	438	767	11/19/96
	JT	5777350	7/7/98	Nakamura, et al.	257	18	11/30/95
	JC	5777433	7/7/98	Lester, et al.	313	512	7/11/96
	JJ	5779924	4/14/98	Krames, et al.	216	18	3/22/96
	JE	5780120	4/14/98	Belouet, et al.	427	554	12/18/96
	JE	5785404	4/21/98	Wiese	362	32	6/29/95
	JG	5793054	4/14/98	Nido	257	18	6/13/96
	JT	5793062	8/11/98	Kish, Jr., et al.	257	18	10/24/97
	JT	5793120	6/2/98	Yang, et al.	372	45	7/30/96
	JJ	5808323	9/15/98	Spaeth, et al.	257	18	3/29/96
	JT	5808592	9/15/98	Mizutani, et al.	345	18	4/21/95
	JT	5809050	9/15/98	Baldwin, et al.	372	43	1/25/96
	JM	5811319	9/22/98	Koike, et al.	343	96	3/29/96
	JN	5811931	9/22/98	Mueller-Mach, et al.	313	512	3/4/96
	JU	5812105	9/22/98	Van De Ven	345	83	6/10/96

Examiner:

*J. M. Brown*Date Considered: *9/15/01*

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date: January 25, 2000

Group Art Unit:

JB	5812570	9/22/98	Spaeth	372	36	9/30/96
JQ	5814870	9/29/98	Spaeth	257	433	1/6/97
JR	5818861	10/6/98	Tan, et al.	372	46	7/19/96
JS	5828684	10/27/98	Van De Walle	372	45	12/29/95
JT	5831288	11/3/98	Singh, et al.	257	77	9/29/97
JU	5835514	11/10/98	Yuen, et al.	372	36	1/25/96
JV	5835522	11/10/98	King, et al.	372	97	11/19/96
JW	5837561	11/17/98	Kish, Jr., et al.	438	47	5/23/97
JX	5838706	11/17/98	Edmond, et al.	372	45	11/19/96
JY	5838707	11/17/98	Ramdani, et al.	372	45	12/27/96
JZ	5838708	11/17/98	Lin, et al.	372	50	8/1/95
KA	5846844	12/8/98	Akasaki, et al.	437	21	2/7/96
KB	5847507	12/8/98	Butterworth, et al.	313	512	7/14/97
KC	5850410	12/15/98	Kuramata	372	43	3/18/96
KD	5855924	1/5/99	Lumbard	425	116	12/27/95
KE	5858277	1/12/99	Chau, et al.	252	301.4 F	12/23/92
KF	5859496	1/12/99	Murazaki, et al.	313	485	5/10/96
KG	5861190	1/19/99	Greene, et al.	427	248.1	3/25/96
KH	5861713	1/19/99	Kondo, et al.	313	495	6/26/97
KI	5862167	1/19/99	Sassa, et al.	372	45	5/27/97
KJ	5867516	2/2/99	Corzine, et al.	372	45	3/12/96
KK	5868837	2/9/99	Disalvo, et al.	117	952	1/13/98
KL	5877558	3/2/99	Nakamura, et al.	257	749	12/19/97
KM	5879587	3/9/99	Yale	252	301.45	9/24/97
KN	5879588	3/9/99	Yale	252	301.45	9/24/97
KQ	5880486	3/9/99	Nakamura, et al.	257	96	8/30/96
KP	5889802	3/30/99	Walker	372	31	3/27/97
KQ	5889806	3/30/99	Nagai, et al.	372	96	8/8/97
KQ	5892787	4/6/99	Tan, et al.	372	43	10/27/94
KQ	5892787	4/6/99	Tan, et al.	372	96	4/22/96
KQ	5900650	5/4/99	Nitta	257	94	8/8/97
KQ	5905276	5/18/99	Manabe, et al.	257	103	11/6/97
KV	5907151	5/25/99	Gramann, et al.	250	214.1	5/20/97
KW	5912477	5/18/99	Negley	257	96	5/20/97
KX	5917202	6/29/99	Haitz, et al.	250	96	12/21/95
KY	5919422	7/6/99	Yamanaka, et al.	422	121	7/26/96

Examiner:

Date Considered: 9/15/01

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FORM PTO-1449 (Modified)	MAY 22 2000 PATENT & TRADEMARK OFFICE U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No.: NICHIA-00700	Serial No.:09/463643
		Applicant: Shuji Nakamura, et al.	
		Filing Date: January 25, 2000	Group Art Unit:
(37 CFR § 1.98(b))		INFORMATION DISCLOSURE STATEMENT BY APPLICANT	

<i>BWB</i>	KZ	5920766	7/6/99	Floyd	438	35	1/7/98
	LA	5923053	7/13/99	Jakowetz, et al.	257	99	9/30/96
	LB	5923118	6/13/99	Jennato, et al.	313	485	3/7/97
	LE	5923690	7/13/99	Kume, et al.	372	99	1/24/97
	LD	5923118	7/13/99	Negley	438	4	4/17/97
	LE	5925898	7/20/99	Spath	257	98	1/26/98
	LE	5927995	7/27/99	Chen, et al.	438	517	4/9/97
	LG	5935705	8/10/99	Chen, et al.	428	367	11/26/97
	LD	5936985	8/10/99	Yamamoto, et al.	372	99	9/13/95
	LT	5945689	8/31/99	Koike, et al.	257	99	3/18/96
	LJ	5953361	8/10/99	Borchert, et al.	372	99	11/25/97
	LK	5953581	8/10/99	Yamasaki, et al.	438	22	4/17/97
	LE	5958295	9/28/99	Yale	252	301.4 S	9/24/97
	LM	5959316	9/28/99	Lowery	257	99	3/8/96
	LN	5959401	9/28/99	Asami, et al.	313	503	9/24/97
	LD	5961723	10/9/99	Roithner, et al.	117	715	11/26/96
	LP	5964943	10/12/99	Stein, et al.	117	99	6/25/97
	LD	5966393	10/12/99	Hide, et al.	372	23	2/4/97
	LK	5968265	10/19/99	Stein, et al.	117	98	1/27/98
	LS	5969378	10/19/99	Singh	257	99	7/10/97
	LT	5972781	10/26/99	Wegleiter, et al.	438	460	9/30/97
	LD	5972801	10/26/99	Lipkin, et al.	438	770	11/8/95
	LV	5973336	10/26/99	Hanke, et al.	257	99	11/3/97
	LW	5980631	11/9/99	Tews, et al.	117	99	12/17/97
	LK	5981945	11/9/99	Spaeth, et al.	257	239	3/8/96
	LY	5981979	11/9/99	Brunner	257	99	11/26/97
	LP	5982970	11/9/99	Schneider	385	125	4/17/97
	MA	5986317	10/19/99	Wiese	257	433	9/29/95
	MB	5991160	11/23/99	Lumbard	361	718	12/27/95
	MC	5994722	11/30/99	Averbeck, et al.	257	99	9/30/96
	MD	5998925	12/7/99	Shimizu, et al.	438	503	7/29/97
	MB	5999552	12/7/99	Bogner, et al.	372	99	1/27/98

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	MF	Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation
	MG	CA1325582	12/28/93	CA	HO1L	21/36B	
<i>BWB</i>	MH	EP0356059A2	2/28/90	EP	HO1L	21/38	

Examiner: *B. Brown* Date Considered: *7/15/01*

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

MAY 22 2000

U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: NICHIA-00700

Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

Filing Date: January 25, 2000

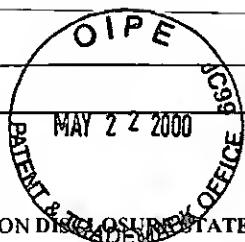
Group Art Unit:

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	MJ	EP0380340A2	8/1/90	EP	HO1L	29/91	
	MK	EP0380340A3	8/1/90	EP	HO1L	29/91	
	ML	EP0637069A1	2/1/95	EP	HO1L	21/473	
	MM	EP0731512A2	9/11/96	EP	HO1L	33/00	
	MN	EP0731512A3	7/2/97	EP	HO1L	33/00	
	MO	EP0781619A1	7/2/97	EP	B23H	7/02	
	MO	EP0871208A2	10/14/98	EP	HO1L	21/20	
	MO	EP0871208A3	12/16/98	EP	HO1L	21/20	
	MR	EP0880181A2	11/25/98	EP	HO1L	29/45	
	MS	EP0880181A3	1/20/99	EP	HO1L	29/45	
	MT	EP0905799A2	3/31/99	EP	HO1L	33/00	
	MU	EP0936682A1	8/18/99	EP	HO1L	33/00	
	MV	FR2613136	9/30/88	FR	HO1L	33/00	
	MW	GB2322737A	3/2/98	GB	HO1L	21/304	
	MX	GB2323210A	9/16/98	GB	HO1L	33/00	
	MY	JP05152609	9/16/98	JP	HO1L	33/00	
<i>BWB</i>	MZ	JP0766192	3/10/95	JP	HO1L	29/78	
	NA	JP09193137	7/29/97	JP	B28D	5/044	
	NB	JP10233529	2/14/97	JP	HO1L	33/00	
<i>BWB</i>	NC	JP1064854	7/18/96	JP	HO1L	21/301	
	ND	JP7176794	7/14/95	JP	HO1L	33/00	
	NE	WO9702478A1	1/23/97	PCT	G01M	19/00	
	NK	WO9702610A1	1/23/97	PCT	HO1L	31/173	
	NC	WO9717730A1	5/15/97	PCT	HO1L	29/24	
	ND	WO9727629A1	7/31/97	PCT	HO1L	29/06	
	NI	WO9739485A1	10/23/97	PCT	HO1L	2706	
	NJ	WO9750132A1	12/31/97	PCT	HO1L	33/00	
	NK	WO9805078A1	2/5/98	PCT	HO1L	33/00	
	NE	WO9812757A1	3/26/98	PCT	HO1L	33/00	
	NM	WO9834304A1	8/6/98	PCT	HO1S	3/025	
	ND	WO9837586A1	8/27/98	PCT	HO1L	33/00	
	NX	WO9842879A1	10/1/98	PCT	C21C	5/35	
	ND	WO9842897A1	10/1/98	PCT	C30B	25/12	
	NX	WO9847185A1	10/22/98	PCT	HO1L	33/00	
<i>BWB</i>	NK	WO9849731A1	11/5/98	PCT	HO1L	29/739	

Examiner:

*John Baum*Date Considered: *9/15/01*

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. Department of Commerce
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Attorney Docket No.: NICHIA-00700 Serial No.:09/463643

Applicant: Shuji Nakamura, et al.

Filing Date: January 25, 2000 Group Art Unit:

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(37 CFR § 1.98(b))

<i>BWB</i>	NS	WO9857378A1	12/17/98	PCT	HO1L	29/73	
	NT	WO9910936A2	3/4/99	PCT	HO1L	33/00	
	NU	WO9910936A3	3/4/99	PCT	HO1L	33/00	
	NV	WO9918617A1	4/15/99	PCT	HO1L	33/00	

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	NW	"Novel Metalorganic Chemical Vapor Deposition System for GaN Growth," S. Nakamura, American Institute of Physics, pp.2021-2023, 5/6/91.
	NX	"Out of the Blue," Forbes Global Magazine, pp.66-71, 9/6/99.
	NY	"Nitride PN Junctions Grown on SiC Substrates," V.A. Dmitriev, Inst. Phys. Conf., pp1019-1022, 1996.
	NZ	"AlGaN PN Junctions," V.A. Dmitriev, American Inst. of Physics, pp.115-117, 5/11/95.
	OA	"Effects of Ar Ion Laser Irradiation on MOVPE of ZnSe using DMZn and DMSe as Reactants," A. Yoshikawa, Journal of Crystal Growth, pp.653-658, 1991.
	OB	"Electric Breakdown in GaN P-N Junctions," V.A. Dmitriev, American Inst. of Physics, pp.229-231, 1/8/96.
	OC	"High Quality GaN Grown Directly on SiC by Halide Vapour Phase Epitaxy," Y.V. Melnik, Inst. Phys. Conf., pp.863-866, 1996.
	OD	"Luminescence Conversion of Blue Light Emitting Diodes," P. Schlotter, Journal of Applied Physics, pp.12-13, 2/27/97.
	OF	"P-Type Conduction in Mg-Doped GaN Treated with Low-Energy Electron Beam Irradiation (LEEBI)," H. Amano, Japanese Journal of Applied Physics, pp.2112-2114, 12/89.
	OF	"Photoluminescence of Mg-Doped P-Type GaN and Electroluminescence of GaN P-N Junction Led," I. Akasaki, Journal of Luminescence Vol. 48-49, pp.666-670, 1991.
	OG	"Recent Progress in AlGaN/GaN Laser Structures on 6H-SiC," G.E. Bulman, SPIE Vol. 2693, pp.57-63, 1996.
	OH	"Recent Progress in GaN/SiC LEDs and Photopumped Lasers," G.E. Bulman, pp.100-101, 19xx.
	OF	"Role of Growth Initiation for High-Brightness GaN-Based Light Emitting Diodes," R.S. Kern, 2nd. Intern. Symp. on Blue Laser and Light Emitting Diodes, Chiba, Japan, 9/29-10/2/98.
	OJ	"The State of SiC: GaN-Based Blue LEDs," J. Edmond, Inst. Phys. Conf. Ser. No. 142, Chap. 6, pp.991-994, 1996.
	OK	"Wide Bandgap Group-III Nitride Optoelectronics," http://www.phy.duke.edu/research/photon/terahertz/gan/index.html .
<i>gwb</i>	OL	"White LED Production at Osram," G. Bogner, Compound Semiconductor, pp.28-31, 5/99.

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JUN 13 2000

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Examiner: *Shuji Nakamura*Date Considered: *5/15/01*

EXAMINER:

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FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: NICHIA-00700	Serial No.: 09/463,643	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Shuji Nakamura <i>et al.</i>		
(37 CFR § 1.98(b))				Filing Date: January 25, 2000	Group Art Unit:	

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
<i>b WB</i>	AA	04144294	5/18/92	JP	H01S	3/18	X	
1	AB	09180998	7/11/97	JP	H01L	21/20	X	
	AE	09246651	9/19/97	JP	H01S	3/18	X	
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	AE	09293935	11/11/97	JP	H01S	3/18	X	
	AE	10242565	9/19/97	JP	H01S	3/18	X	
	AG	10256645	9/25/98	JP	H01S	3/18	X	
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NO TRANSLATION	AP	DE 196 48 955A1	5/28/97	DE	H01L	33/00		X
	AQ							

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AR	"InGaN/GaN/AlGaN-based laser diodes with modulation-doped strained-layer superlattices grown on an epitaxially laterally overgrown GaN substrate," Shuji Nakamura <i>et al.</i> , Applied Physics Letter, Vol. 72, No. 2, January 12, 1998.
AS	
AT	
AU	
AV	
AW	
AX	
AY	
AZ	
BA	
BB	

Examiner: *Brian Penn*Date Considered: *9/15/01*

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